

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (currently amended) A piezoelectric generator that creates a potential when physically distorted, said generator comprising:  
a piezoelectric layer, ~~wherein a portion of said piezoelectric layer has a maximum displacement;~~  
at least one guide-tooth; and  
a ~~frame~~ guide-frame for said piezoelectric layer, wherein said piezoelectric layer is located between said at least one guide-tooth and said guide-frame, said guide-frame is operable to receive said at least one guide-tooth such that at least a portion of said guide-tooth is operable to fit into said guide-frame, and said piezoelectric layer is distorted into said guide-frame by said guide-tooth when said guide-frame receives said guide-tooth ~~wherein said portion substantially fits into said frame when said maximum displacement occurs.~~

2. (currently amended) ~~An~~ A flexible array of piezoelectric generators, said array comprising:

a plurality of flexible generators, wherein each one of said generators include a plurality of piezoelectric elements at least one piezoelectric element, said plurality of generators are separated by an isolation layer, said plurality of generators have a first stiffness, said isolation layer has a second stiffness, said isolation layer is flexible, and said second stiffness is greater than said first stiffness.

3. (currently amended) ~~An~~ A flexible array of piezoelectric generators, said array comprising:

a plurality of flexible generators, wherein each one of said generators ~~include a plurality of piezoelectric elements~~ include at least one piezoelectric element, said plurality of generators are separated by an isolation layer, said plurality of generators have a first stiffness, said isolation layer has a second stiffness, said isolation layer is flexible, and said second stiffness is smaller than said first stiffness.

4. (new) The flexible array of claim 2, wherein said flexible array is electrically coupled to an electrical energy storage device to store electrical energy generated by said plurality of flexible generators.

5. (new) The flexible array of claim 2, wherein at least one of said at least one piezoelectric elements is located between a first flexible metal layer and a second flexible metal layer.

6. (new) The flexible array of claim 3, wherein said flexible array is electrically coupled to an electrical energy storage device to store electrical energy generated by said plurality flexible generators.

7. (new) The flexible array of claim 3, wherein at least one of said at least one piezoelectric elements is located between a first flexible metal layer and a second flexible metal layer.

8. (new) The system of claim 1, wherein a portion of said piezoelectric layer has a maximum

displacement before breaking and said portion substantially fits into said guide-frame when said maximum displacement occurs.

9. (new) The system of claim 1, further comprising:

a first metal layer provided between at least a portion of said piezoelectric layer and at least a portion of said guide-tooth; and

a second metal layer provided between at least a portion of said piezoelectric layer and at least a portion of said guide-frame.

10. (new) The system of claim 1, further comprising a battery coupled to said piezoelectric layer.

11. (new) The system of claim 1, further comprising a spring coupled to said piezoelectric layer operable of providing force against said piezoelectric layer.

12. (new) A piezoelectric generator that creates a potential when physically distorted, said generator comprising:

a piezoelectric layer;

a spring coupled to said piezoelectric layer;

and

a guide-frame for receiving said piezoelectric layer, wherein said spring is coupled to said guide-frame, said guide-frame is operable to receive said piezoelectric layer such that at least a portion of said piezoelectric layer is operable to fit into said guide frame, and wherein said piezoelectric layer is distorted

into said guide-frame when said guide-frame receives said piezoelectric layer.

13. (new) The generator of claim 12, wherein said spring is operable to physically distort said piezoelectric layer.

14. (new) The generator of claim 12, wherein said spring comprises a cushion having a spring constant operable to physically distort said piezoelectric layer.

15. (new) The generator of claim 12, wherein an energy storage device is coupled to said piezoelectric layer to generate electrical energy produced by said piezoelectric layer.

16. (new) A system comprising:

a plurality of piezoelectric generators, wherein each one of said piezoelectric generators comprise a piezoelectric layer;

a first layer having a plurality of guide-teeth, wherein at least one of said guide-teeth is aligned with at least one one of said plurality of piezoelectric generators; and

a second layer having a plurality of guide-teeth receivable frames, wherein said plurality of piezoelectric generators are located between said first layer and said second layer, wherein said each one of said guide-teeth receivable frames is operable receive at least one of said guide-teeth such that at least a part of said at least one guide-teeth fits into said guide-teeth frames, and wherein at least one of said piezoelectric generators are distorted into said guide-

teeth frames by said guide-teeth when said guide-teeth frames receives said guide-teeth;

17. (new) The generator of claim 16, wherein said plurality of guide-teeth are physically connected together to form said first layer.

18. (new) The generator of claim 16, wherein at least energy storage device is coupled to said plurality of piezoelectric layers to store electrical energy generated by said plurality of piezoelectric layers.

19. (new) The generator of claim 16, further comprising a material having a spring constant located in at least one of said guide-teeth receivable frames.

20. (new) The generator of claim 16, further comprising a diode coupled to at least one of said piezoelectric generators to protect the other piezoelectric generators from being distorted from any potential generated from said one of said piezoelectric generators.